

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/003047

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C08G59/14 C09D163/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08G C09D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 686 248 A (BEKOOIJ ET AL) 11 August 1987 (1987-08-11) column 3, line 33 - column 4, line 59; claims	1-15
X	US 4 098 735 A (TOBIAS MICHAEL ALLAN) 4 July 1978 (1978-07-04) cited in the application claim 1; examples 1-8 column 3, line 10 - line 26	1-15
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the International search

27 June 2005

Date of mailing of the International search report

12/07/2005

Name and mailing address of the ISA  
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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/003047

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section Ch, Week 197718 Derwent Publications Ltd., London, GB; Class A82, AN 1977-31576Y XP002299899 &amp; JP 52 036132 A (HITACHI CHEM CO LTD) 19 March 1977 (1977-03-19) abstract</p>	1-15
A	<p>US 4 413 015 A (ANDERSON RONALD W ET AL) 1 November 1983 (1983-11-01) example 5; table 1</p>	1-15
A	<p>US 4 812 537 A (MAKI TETSU) 14 March 1989 (1989-03-14) claim 1</p>	1-15
A	<p>US 3 355 401 A (BUTLER TANNER EDWARD) 28 November 1967 (1967-11-28) examples 2-4</p>	1-15
A	<p>WO 01/18133 A (DSM N.V; VAN DE BERG JETHS, ROBERT; VAN ROSSUM, CORNELIS, ALBERTUS, JO) 15 March 2001 (2001-03-15) claims</p>	1,15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/003047

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4686248	A	11-08-1987	AU 570248 B2	10-03-1988
			AU 2896384 A	06-12-1984
			CA 1340085 C	13-10-1998
			DE 3475524 D1	12-01-1989
			EP 0127915 A2	12-12-1984
			ES 8600338 A1	01-01-1986
			US 4614775 A	30-09-1986
US 4098735	A	04-07-1978	AU 519841 B2	24-12-1981
			AU 3323978 A	23-08-1979
			BE 863915 A1	14-08-1978
			BR 7800881 A	24-10-1978
			CA 1124443 A1	25-05-1982
			DE 2805902 A1	17-08-1978
			DK 64178 A	15-08-1978
			FR 2380310 A1	08-09-1978
			GB 1580772 A	03-12-1980
			IT 1095408 B	10-08-1985
			JP 53102995 A	07-09-1978
			NL 7801657 A	16-08-1978
			NO 780493 A	15-08-1978
			ZA 7800871 A	26-09-1979
JP 52036132	A	19-03-1977	NONE	
US 4413015	A	01-11-1983	NONE	
US 4812537	A	14-03-1989	JP 1886793 C	22-11-1994
			JP 6013667 B	23-02-1994
			JP 62275166 A	30-11-1987
US 3355401	A	28-11-1967	GB 1080172 A	23-08-1967
			BE 646631 A	17-08-1964
			DE 1520602 B1	23-07-1970
			DK 115732 B	03-11-1969
			FR 1388543 A	05-02-1965
			NL 128254 C	
			NL 6404060 A	19-10-1964
WO 0118133	A	15-03-2001	EP 1081199 A1	07-03-2001
			AU 7322800 A	10-04-2001
			EP 1218114 A2	03-07-2002
			WO 0118133 A2	15-03-2001

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

REC'D 08 JUL 2005

WIPG PCT

PCT

To:

see form PCT/ISA/220

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/EP2005/003047

International filing date (day/month/year)  
21.03.2005

Priority date (day/month/year)  
29.03.2004

International Patent Classification (IPC) or both national classification and IPC  
C08G59/14, C09D163/00

Applicant  
IMPERIAL CHEMICAL INDUSTRIES PLC

### 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☐ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

### 3. For further details, see notes to Form PCT/ISA/220.

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/EP2005/003047

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**Box No. I Basis of the opinion**

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1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**Re Item V**

**Reasoned statement with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

1. Reference is made to the following document/s/:

D1: US-A-4 686 248 (BEKOOIJ ET AL) 11 August 1987 (1987-08-11)

D2: US-A-4 098 735 (TOBIAS MICHAEL ALLAN) 4 July 1978 (1978-07-04)

D3: DATABASE WPI Section Ch, Week 197718 Derwent Publications Ltd., London, GB;  
Class A82, AN 1977-31576Y XP002299899 & JP 52 036132 A (HITACHI CHEM CO  
LTD) 19 March 1977 (1977-03-19)

D1 discloses a crosslinkable coating composition comprising a crosslinker, e.g. an amino resin (col 5, lines 30-37) and a modified epoxy resin. The modified epoxy resin is prepared by reacting an epoxy resin with a monofunctional phenol and a dicarboxylic acid (claims)

D2 discloses a crosslinkable coating composition comprising a crosslinker, e.g. an amino resin (col 7, lines 27-36) and a modified epoxy resin. The modified epoxy resin is prepared by reacting an epoxy resin with a monocarboxylic acid and a dicarboxylic acid (claims)

D3 discloses a crosslinkable coating composition comprising a crosslinker, e.g. an amino resin and a modified epoxy resin. The modified epoxy resin is prepared by reacting an epoxy resin with a fatty acid and a polyvalent carboxylic acid (abstract)

2. The present application does not meet the criteria of Article 33(1) PCT, because firstly the subject-matter of claims 1,10-15 is not new in the sense of Article 33(2) PCT and secondly the subject-matter of the same claims does not involve an inventive step in the sense of Article 33(3) PCT.

3. Dependent claims 2-9 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step,

4. The present opinion on novelty and inventive step is based on the above documents.

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/EP2005/003047

However it appears possible that in the regional phase a translation of the JP-A-52036132, abstracted in D3 may have to be consulted before coming to a final decision.

5. Claims 1-15 do meet the criteria of Article 33(1)(4) PCT, because its subject-matter is industrially applicable in the sense of Article 33(4) PCT.